

PATENT ABSTRACTS OF JAPAN

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(22)Date of filing : 26.01.2000	(72)Inventor : KOIKE YASUHIRO
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(54) LOW BIREFRINGENT OPTICAL RESIN MATERIAL, ITS MANUFACTURING METHOD AND ITS APPLICATION**(57)Abstract:**

PROBLEM TO BE SOLVED: To provide an optical resin material which is composed of a polymer resin and in which the birefringence is reduced without sacrificing its characteristics and its manufacturing method, and to provide various useful materials or articles by applying the optical resin material.

SOLUTION: The low birefringent optical resin material is made by alignment treatment of a transparent polymer resin material in a state in which molecular alignment suppressing particles with a size smaller than the wavelength of light are mixed in the transparent polymer resin material. The molecular alignment suppressing particles are particles composed of a substance with isotropic polarization or particles with isotropy in shape. The extent of alignment produced in the polymer chain of the polymer resin material is suppressed due to the existence of the molecular alignment suppressing particles, and as a result, the birefringence induced by the alignment treatment is reduced. The optical resin material is advantageously used in a liquid crystal element or in an optical disc.

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